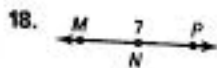


Name _____

My Homework 10/14, 5/16**Extra Practice**

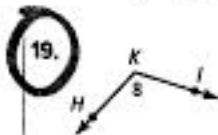
Name each angle in four ways. Then classify the angle as *acute*, *right*, *obtuse*, or *straight*.



Homework Help →

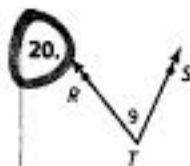
$\angle MNP, \angle PNM, \angle N, \angle 7;$

straight



$\angle HKI, \angle IKH, \angle K, \angle 8;$

obtuse



$\angle RTS, \angle STR, \angle T, \angle 9;$

acute

21. The corner where the states of Utah, Arizona, New Mexico, and Colorado meet is called the Four Corners.

- a. Identify a pair of vertical angles. Justify your response.

Sample answer: $\angle 1$ and $\angle 3$; Since $\angle 1$ and $\angle 3$ are opposite angles formed by the intersection of two lines, they are vertical angles.



- b. Identify a pair of adjacent angles. Justify your response.

Sample answer: $\angle 1$ and $\angle 2$; Since $\angle 1$ and $\angle 2$ share a common vertex, a common side, and do not overlap, they are adjacent angles.

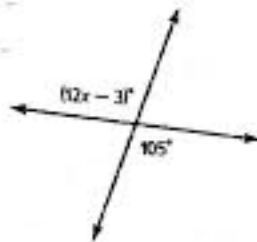
22. What is the value of x in the figure at the right?

26



23. What is the value of x in the figure at the right?

9



24. **Identify Structure** The John Hancock Center in Chicago is shown at the right. Classify each pair of angles.

- a. $\angle 1$ and $\angle 2$ adjacent
 b. $\angle 2$ and $\angle 4$ vertical
 c. $\angle 3$ and $\angle 4$ adjacent
 d. $\angle 1$ and $\angle 3$ vertical

- e. If the measure of $\angle 2$ is 66° , what are the measures of the other angles? $\angle 1$ measures 114° , $\angle 4$ measures 66° , $\angle 3$ measures 114°

